0590
0107

RAW SEQUENCE LISTING   DATE: 01/16/2002
PATENT APPLICATION: US/09/938,114   TIME: 09:13:45

Input Set : **N:\Crf3\RULE60\09938114.txt**
Output Set: **N:\CRF3\01162002\I938114.raw**

SEQUENCE LISTING
```
 4 (1) GENERAL INFORMATION:
 7      (i) APPLICANT: Chun Wang, Banjamin XY Li, Xin Cheng,
 8                    Jing Liu, Li-Wen Niu, Wan-Zhi Huang,
 9                    Zhen-Yu Xu, Dan Luo, Lian-Di Kang,
10                    Jin-Guo Ding, Fang Rong, Yan Liu and
11                    Hui-Ran Chen
15     (ii) TITLE OF INVENTION: AN ANTITHROMBOSIS ENZYME FROM THE SNAKE
16                    VENOM OF AGKISTRODON ACUTUS
19    (iii) NUMBER OF SEQUENCES: 12
22     (iv) CORRESPONDENCE ADDRESS:
24          (A) ADDRESSEE: Lyon & Lyon
25          (B) STREET: 633 West Fifth Street
26                    Suite 4700
27          (C) CITY: Los Angeles
28          (D) STATE: California
29          (E) COUNTRY: U.S.A.
30          (F) ZIP: 90071-2066
33      (v) COMPUTER READABLE FORM:
35          (A) MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
36                    storage
37          (B) COMPUTER: IBM Compatible
38          (C) OPERATING SYSTEM: IBM P.C. DOS 5.0
39          (D) SOFTWARE: FastSEQ for Windows 2.0
42     (vi) CURRENT APPLICATION DATA:
```
C--> `44          (A) APPLICATION NUMBER: US/09/938,114`
C--> `45          (B) FILING DATE: 23-Aug-2001`
```
46          (C) CLASSIFICATION:
49    (vii) PRIOR APPLICATION DATA:
51          (A) APPLICATION NUMBER: 09/058,740
52          (B) FILING DATE:
55   (viii) ATTORNEY/AGENT INFORMATION:
57          (A) NAME: Chen, Anthony C.
58          (B) REGISTRATION NUMBER: 38,673
59          (C) REFERENCE/DOCKET NUMBER: 233/298
65     (ix) TELECOMMUNICATION INFORMATION:
67          (A) TELEPHONE: (213) 489-1600
68          (B) TELEFAX: (213) 955-0440
69          (C) TELEX: 67-3510
72 (2) INFORMATION FOR SEQ ID NO: 1:
74      (i) SEQUENCE CHARACTERISTICS:
76          (A) LENGTH: 544 base pairs
77          (B) TYPE: nucleic acid
78          (C) STRANDEDNESS: single
79          (D) TOPOLOGY: linear
81     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
83 GAAGGGCATT GCTACAAGGT CTTCAAACAA TCTAAGACCT GGACAGATGC AGAGAGCTTC        60
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ENTERED

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                  RAW SEQUENCE LISTING           DATE: 01/16/2002
                  PATENT APPLICATION:  US/09/938,114    TIME: 09:13:45

                  Input Set : N:\Crf3\RULE60\09938114.txt
                  Output Set: N:\CRF3\01162002\I938114.raw

84  TGCACGAAGC AGGTGAACGG GGGGCATCTG GTCTCTATCG AAAGCTCCGG AGAAGCAGAC   120
85  TTTGTGGGCC AGTTGATTGC TCAGAAGATA AAGTCAGCCA AAATCCATGT CTGGATCGGA   180
86  CTGAGGGCTC AAAACAAAGA AAAGCAATGC AGCATAGAGT GGAGCGATGG CTCCAGCATC   240
87  AGTTATGAGA ATTGGATTGA AGAAGAATCC AAAAAGTGTC TTGGGGTGCA CATAGAGACA   300
88  GGGTTTCATA AGTGGGAGAA TTTTTACTGT GAACAACAAG ATCCTTTTGT CTGCGAGGCA   360
89  TAGTCTGAAG ATCCAGCTGA TTGAAGTCTG GAGAAGCAAG GAAGCCCCCC ACCCCATCCC   420
90  CCAACCCTGC CTAGCCACAA TCTCTGCTAT GCACCCTTTG CTCAACGGAT GCTCTCTGTA   480
91  GCTGGATCTG GTGTTGCTGC TCCTGATGGG CCGGAAGTCA ATAAATTCTG CCTAGCCTGA   540
92  AAAA                                                              544
96  (2) INFORMATION FOR SEQ ID NO: 2:
98       (i) SEQUENCE CHARACTERISTICS:
100             (A) LENGTH: 129 amino acids
101             (B) TYPE: amino acid
102             (C) STRANDEDNESS: single
103             (D) TOPOLOGY: linear
105      (ii) MOLECULE TYPE: Peptide
107      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
109  Asp Cys Ser Ser Asp Trp Ser Ser Tyr Glu Gly His Cys Tyr Lys Val
110  1               5                   10                  15
112  Phe Lys Gln Ser Lys Thr Trp Thr Asp Ala Glu Ser Phe Cys Thr Lys
113             20                  25                  30
115  Gln Val Asn Gly Gly His Leu Val Ser Ile Glu Ser Ser Gly Glu Ala
116             35                  40                  45
118  Asp Phe Val Gly Gln Leu Ile Ala Gln Lys Ile Lys Ser Ala Lys Ile
119       50                  55                  60
121  His Val Trp Ile Gly Leu Arg Ala Gln Asn Lys Glu Lys Gln Cys Ser
122  65                  70                  75                  80
124  Ile Glu Trp Ser Asp Gly Ser Ser Ile Ser Lys Glu Asn Trp Ile Glu
125             85                  90                  95
127  Glu Glu Ser Lys Lys Cys Leu Gly Val His Ile Glu Thr Gly Phe His
128             100                 105                 110
130  Lys Trp Glu Asn Phe Tyr Cys Glu Gln Gln Asp Pro Phe Val Cys Glu
131             115                 120                 125
133  Ala
137  (2) INFORMATION FOR SEQ ID NO: 3:
139       (i) SEQUENCE CHARACTERISTICS:
141             (A) LENGTH: 29 amino acids
142             (B) TYPE: amino acid
143             (C) STRANDEDNESS: single
144             (D) TOPOLOGY: linear
146      (ii) MOLECULE TYPE: Peptide
148      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
150  Asp Cys Ser Ser Asp Trp Ser Ser Tyr Glu Gly His Cys Tyr Lys Val
152  1               5                   10                  15
154  Phe Lys Gln Ser Lys Thr Trp Thr Asp Ala Glu Ser Phe
155             20                  25
159  (2) INFORMATION FOR SEQ ID NO: 4:
161       (i) SEQUENCE CHARACTERISTICS:
163             (A) LENGTH: 17 amino acids
```

RAW SEQUENCE LISTING   DATE: 01/16/2002
PATENT APPLICATION: US/09/938,114   TIME: 09:13:45

Input Set : N:\Crf3\RULE60\09938114.txt
Output Set: N:\CRF3\01162002\I938114.raw

```
164              (B) TYPE: amino acid
165              (C) STRANDEDNESS: single
166              (D) TOPOLOGY: linear
168         (ii) MOLECULE TYPE: Peptide
170         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
172 Asp Cys Pro Ser Glu Trp Ser Ser Tyr Glu Gly Phe Cys Tyr Lys Pro
173 1               5                   10                  15
175 Phe
179 (2) INFORMATION FOR SEQ ID NO: 5:
181         (i) SEQUENCE CHARACTERISTICS:
183              (A) LENGTH: 23 amino acids
184              (B) TYPE: amino acid
185              (C) STRANDEDNESS: single
186              (D) TOPOLOGY: linear
188         (ii) MOLECULE TYPE: Peptide
190         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
192 Met Gly Arg Phe Ile Phe Val Ser Phe Gly Leu Leu Val Val Phe Leu
193 1               5                   10                  15
195 Ser Leu Ser Gly Thr Ala Ala
196             20
200 (2) INFORMATION FOR SEQ ID NO: 6:
202         (i) SEQUENCE CHARACTERISTICS:
204              (A) LENGTH: 6 amino acids
205              (B) TYPE: amino acid
206              (C) STRANDEDNESS: single
207              (D) TOPOLOGY: linear
209         (ii) MOLECULE TYPE: Peptide
211         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
213 Tyr Glu Gly His Cys Tyr
214 1               5
218 (2) INFORMATION FOR SEQ ID NO: 7:
220         (i) SEQUENCE CHARACTERISTICS:
222              (A) LENGTH: 20 base pairs
223              (B) TYPE: nucleic acid
224              (C) STRANDEDNESS: single
225              (D) TOPOLOGY: linear
227         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
229 TATGAAGGGC ATTGCTACAA                                         20
233 (2) INFORMATION FOR SEQ ID NO: 8:
235         (i) SEQUENCE CHARACTERISTICS:
237              (A) LENGTH: 20 base pairs
238              (B) TYPE: nucleic acid
239              (C) STRANDEDNESS: single
240              (D) TOPOLOGY: linear
242         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
244 CCATGGGGCG ATTCATCTTC                                         20
248 (2) INFORMATION FOR SEQ ID NO: 9:
250         (i) SEQUENCE CHARACTERISTICS:
252              (A) LENGTH: 19 base pairs
```

```
253          (B) TYPE: nucleic acid
254          (C) STRANDEDNESS: single
255          (D) TOPOLOGY: linear
259      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
261  CAGCTGCATC TTCAGACTA                                      19
265 (2) INFORMATION FOR SEQ ID NO: 10:
267      (i) SEQUENCE CHARACTERISTICS:
269          (A) LENGTH: 24 base pairs
270          (B) TYPE: nucleic acid
271          (C) STRANDEDNESS: single
272          (D) TOPOLOGY: linear
274      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
276  GGTGGCGACG ACTCCTGGAG CCCG                               24
280 (2) INFORMATION FOR SEQ ID NO: 11:
282      (i) SEQUENCE CHARACTERISTICS:
284          (A) LENGTH: 24 base pairs
285          (B) TYPE: nucleic acid
286          (C) STRANDEDNESS: single
287          (D) TOPOLOGY: linear
289      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
291  TTGACACCAG ACCAACTGGT AATG                               24
```

VERIFICATION SUMMARY   DATE: 01/16/2002
PATENT APPLICATION: **US/09/938,114**   TIME: 09:13:46

Input Set : **N:\Crf3\RULE60\09938114.txt**
Output Set: **N:\CRF3\01162002\I938114.raw**

L:44 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:45 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:327 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:328 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:329 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:331 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:332 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:333 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:335 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:336 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:337 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:339 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:340 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:341 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:343 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:344 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:345 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:347 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:348 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:349 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:351 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:352 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:353 M:259 W: Allowed number of lines exceeded, [OTHER INFORMATION:], SeqNo=12
L:353 M:220 C: Keyword misspelled or invalid format, Poss data loss, Seq 12, (D) OTHER
INFORMATION: